

For Research Use Only

CoraLite® Plus 488-conjugated band 3/ AE1 Monoclonal antibody



Catalog Number: CL488-66984

Basic Information

Catalog Number: CL488-66984	GenBank Accession Number: BC101570	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 6521	CloneNo.: 1E5C1
Source: Mouse	UNIPROT ID: P02730	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG1	Full Name: solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG28058	Calculated MW: 911 aa, 102 kDa	

Applications

Tested Applications: IF-P	Positive Controls: IF : human placenta tissue,
Species Specificity: Human	

Background Information

Anion exchanger 1 (AE1), also known as band 3, is a 95-100 kDa transmembrane glycoprotein which is abundantly expressed in erythrocyte plasma membrane and mediates the electroneutral exchange of Cl⁻ and HCO₃⁻. It contains a 52-55 kDa C-terminal membrane crossing domain and a 43 kDa N-terminal cytoplasmic domain. Degradation of band 3 protein occurred during erythrocyte aging. The oxidative stress can also activate the proteolysis of band 3 through caspases. This antibody is expected to recognize the intact band 3 (95-100 kDa) and various degradation products (38-60 kDa). (PMID: 22890269, 29240292, 28130418)

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

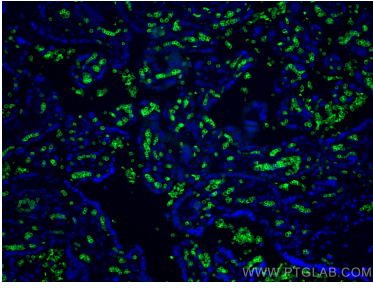
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using CoraLite® Plus 488 band 3/ AE1 antibody (CL488-66984, Clone: 1E5C1) at dilution of 1:200.